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# NOTICE OF ALLOWANCE AND FEE(S) DUE

24737

7590

09/17/2008

PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510

EXAMINER					
HO, ALLEN C					
ART UNIT	PAPER NUMBER				

2882 DATE MAILED; 09/17/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,792	10/10/2006	Hans Barschdorf	NL 040385	4652

TITLE OF INVENTION: DEVICE FOR GENERATING X-RAYS HAVING A LIQUID METAL ANODE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/17/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of specifying a new co	of ma rresp	aintenance fees wi ondence address;	ll be a and/or	mailed to the current (b) indicating a sepa	cori irate	respondence address as "FEE ADDRESS" for
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EXAM	INER	ART UNIT	CLASS-SUBCLASS						
HO, AL	LEN C	2882	378-119000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Unirecordation as set fort (A) NAME OF ASSIGNAME OF ASSIG	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident in 37 CFR 3.11. Comp	Indication form  Indica	data will appear on th T a substitute for filing (B) RESIDENCE: (C.	p to 3 native ingle or ag attorn be p type r type an as	3 registered patent ely, firm (having as a ment) and the name eys or agents. If norinted.	attorn membs of up o nam e is id	er a 2		
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Authorized Signature		ttes Patent and Trademark							
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P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510		ART UNIT PAPER NUMBI			
		2882			
		DATE MAILED: 09/17/2008			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 282 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 282 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/599,792	BARSCHDORF ET AL.
Notice of Allowability	Examiner	Art Unit
	Allen C. <b>H</b> o	2882
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308.	olication. If not included will be mailed in due course. <b>THIS</b>
1. This communication is responsive to application filed on 10	October 2006.	
2. The allowed claim(s) is/are <u>1-6</u> .		
<ol> <li>Acknowledgment is made of a claim for foreign priority unally All b) ☐ Some* c) ☐ None of the:</li> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> </ol>	been received. been received in Application No cuments have been received in this communication to file a reply received in this communication to file a reply received in the received in this communication to file a reply received in the received in this communication to file a reply received in this received in the received in this receive	national stage application from the
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declara	
5. CORRECTED DRAWINGS (as "replacement sheets") mus		
(a) ☐ including changes required by the Notice of Draftspers	•	948) attached
1)  hereto or 2)  to Paper No./Mail Date		<b>5</b>
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal Pa 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendn	(PTO-413), e
Paper No./Mail Date 20061010, 20070511  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	<del>                          </del>	ent of Reasons for Allowance

#### **DETAILED ACTION**

### Allowable Subject Matter

1. Claims 1-6 are allowed.

2. The following is an examiner's statement of reasons for allowance:

With respect to claims 1-6, the prior art discloses a device that comprises: an electron source for emitting electrons accommodated in a vacuum space; a liquid metal circuit including a liquid metal and a pumping means for causing a flow of the liquid metal through a constriction where the electrons emitted by the electron source impinge upon the liquid metal; a radiation window bounding the constriction, which is transparent to electrons and x-rays and separates the constriction from the vacuum space. However, the prior art fails to disclose or fairly suggest that the constriction is bounded by a compensation window opposite the radiation window, which separates the constriction from a pressure chamber containing liquid metal provided by the liquid metal circuit via a connection as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- (1) Harding (U. S. Patent No. 7,412,032 B2) disclosed an x-ray emitter comprising a liquid metal anode.
- (2) Harding *et al.* (U. S. Patent No. 7,127,036 B2) disclosed a device for generating x-rays having a liquid metal anode.
- (3) Harding *et al.* (U. S. Patent No. 6,961,408 B2) disclosed a device for generating x-rays having a liquid metal anode.
- (4) Harding *et al.* (U. S. Patent No. 6,925,151 B2) disclosed a device for generating x-rays.
- (5) Harding *et al.* (U. S. Pub. No. 2004/0174957 A1) disclosed an x-ray source provided with a liquid metal target.
- (6) Harding *et al.* (U. S. Patent No. 6,647,094 b2) disclosed an x-ray source provided with a liquid metal target.
- (7) Harding *et al.* (U. S. Patent No. 6,560,313 B1) disclosed a monochromatic x-ray source.
- (8) Harding *et al.* (U. S. Patent No. 6,477,234 B2) disclosed an x-ray source having a liquid metal target.
- (9) Harding (U. S. Patent No. 6,185,277 B1) disclosed an x-ray source having a liquid metal target.

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Art Unit: 2882

(10) Schuster (U. S. Patent No. 5,052,034) disclosed an x-ray generator using liquid

anode.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Allen C. Ho whose telephone number is (571) 272-2491. The

examiner can normally be reached on Monday - Friday from 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward J. Glick can be reached on (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Allen C. Ho/ Primary Examiner

Art Unit 2882

09 September 2008